



SEQUENCE LISTING

<110> Frank, Glenn R.
Porter, James P.
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Wassom, Donald L.

<120> METHOD TO DETECT IgE

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<141> 2004-01-23

<150> 09/944,277

<151> 2001-08-30

<150> 09/285,873

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<170> PatentIn version 3.2

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Met Ala Pro

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Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln Gln Val Asn	
85 90 95	
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Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp Leu Leu Leu	
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Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys	
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Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn Ile Ser Ile	
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Thr Asn Ala Thr Val Glu Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys	
165 170 175	
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Val Trp Gln Leu Asp Tyr Glu Ser Glu Pro Leu Asn Ile Thr Val Ile	
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Gln Gln Val Thr Phe Leu Leu Lys Ile Lys Arg Thr Arg Lys Gly Phe	
230 235 240	
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Arg Leu Leu Asn Pro His Pro Lys Pro Asn Pro Lys Asn Asn	
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Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp
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Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile
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Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln
85 90 95

Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp
100 105 110

Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu
115 120 125

Phe Leu Arg Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile
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Tyr Tyr Lys Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn
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Ile Ser Ile Thr Asn Ala Thr Val Glu Asp Ser Gly Thr Tyr Tyr Cys
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Thr Gly Lys Val Trp Gln Leu Asp Tyr Glu Ser Glu Pro Leu Asn Ile
180 185 190

Thr Val Ile Lys Ala Pro Arg Glu Lys Tyr Trp Leu Gln Phe Phe Ile
195 200 205

Pro Leu Leu Val Val Ile Leu Phe Ala Val Asp Thr Gly Leu Phe Ile
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Ser Thr Gln Gln Gln Val Thr Phe Leu Leu Lys Ile Lys Arg Thr Arg
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gatcaccttg tacacatccc agttcctcca accatggcac ctgaggaaga ggggctggcc 720
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 Phe Phe Ala Pro Asp Gly Val Leu Ala Val Pro Gln Lys Pro Lys Val
 20 25 30
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 Ser Leu Asn Pro Pro Trp Asn Arg Ile Phe Lys Gly Glu Asn Val Thr
 35 40 45
 ctt aca tgt aat ggg aac aat ttc ttt gaa gtc agt tcc acc aaa tgg 192
 Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp
 50 55 60
 ttc cac aat ggc agc ctt tca gaa gag aca aat tca agt ttg aat att 240
 Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile
 65 70 75 80
 gtg aat gcc aaa ttt gaa gac agt gga gaa tac aaa tgt cag cac caa 288
 Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln
 85 90 95
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 Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp
 100 105 110
 ctg ctc ctt cag gcc tct gct gag gtg gtg atg gag ggc cag ccc ctc 384
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Tyr Tyr Lys Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn	
145 150 155 160	
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165 170 175	
acg ggc aaa gtg tgg cag ctg gac tat gag tct gag ccc ctc aac att	576
Thr Gly Lys Val Trp Gln Leu Asp Tyr Glu Ser Glu Pro Leu Asn Ile	
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Thr Val Ile Lys Ala Pro Arg Glu Lys Tyr Trp Leu Gln Phe Phe Ile	
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Pro Leu Leu Val Val Ile Leu Phe Ala Val Asp Thr Gly Leu Phe Ile	
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225 230 235 240	
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Thr Asn Ser Ser Leu Asn Ile Val Asn Ala Lys Phe Glu Asp Ser Gly
 50 55 60

Glu Tyr Lys Cys Gln His Gln Gln Val Asn Glu Ser Glu Pro Val Tyr
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Leu Glu Val Phe Ser Asp Trp Leu Leu Leu Gln Ala Ser Ala Glu Val
 85 90 95

Val Met Glu Gly Gln Pro Leu Phe Leu Arg Cys His Gly Trp Arg Asn
 100 105 110

Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys Asp Gly Glu Ala Leu Lys
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Tyr Trp Tyr Glu Asn His Asn Ile Ser Ile Thr Asn Ala Thr Val Glu
 130 135 140

Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys Val Trp Gln Leu Asp Tyr
 145 150 155 160

Glu Ser Glu Pro Leu Asn Ile Thr Val Ile Lys Ala Pro Arg Glu Lys
 165 170 175

Tyr Trp Leu Gln Phe Phe Ile Pro Leu Leu Val Val Ile Leu Phe Ala
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Val Asp Thr Gly Leu Phe Ile Ser Thr Gln Gln Gln Val Thr Phe Leu
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 Phe Lys Gly Glu Asn Val Thr Leu Thr Cys Asn Gly Asn Asn Phe Phe
 20 25 30

gaa gtc agt tcc acc aaa tgg ttc cac aat ggc agc ctt tca gaa gag 144
 Glu Val Ser Ser Thr Lys Trp Phe His Asn Gly Ser Leu Ser Glu Glu
 35 40 45

aca aat tca agt ttg aat att gtg aat gcc aaa ttt gaa gac agt gga 192
 Thr Asn Ser Ser Leu Asn Ile Val Asn Ala Lys Phe Glu Asp Ser Gly
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gtg atg gag ggc cag ccc ctc ttc ctc agg tgc cat ggt tgg agg aac				336
Val Met Glu Gly Gln Pro Leu Phe Leu Arg Cys His Gly Trp Arg Asn				
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tgg gat gtg tac aag gtg atc tat tat aag gat ggt gaa gct ctc aag				384
Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys Asp Gly Glu Ala Leu Lys				
	115	120	125	
tac tgg tat gag aac cac aac atc tcc att aca aat gcc aca gtt gaa				432
Tyr Trp Tyr Glu Asn His Asn Ile Ser Ile Thr Asn Ala Thr Val Glu				
	130	135	140	
gac agt gga acc tac tac tgt acg ggc aaa gtg tgg cag ctg gac tat				480
Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys Val Trp Gln Leu Asp Tyr				
	145	150	155	160
gag tct gag ccc ctc aac att act gta ata aaa gct ccg cgt gag aag				528
Glu Ser Glu Pro Leu Asn Ile Thr Val Ile Lys Ala Pro Arg Glu Lys				
	165	170	175	
tac tgg cta caa ttt ttt atc cca ttg ttg gtg gtg att ctg ttt gct				576
Tyr Trp Leu Gln Phe Phe Ile Pro Leu Leu Val Val Ile Leu Phe Ala				
	180	185	190	
gtg gac aca gga tta ttt atc tca act cag cag cag gtc aca ttt ctc				624
Val Asp Thr Gly Leu Phe Ile Ser Thr Gln Gln Gln Val Thr Phe Leu				
	195	200	205	
ttg aag att aag aga acc agg aaa ggc ttc aga ctt ctg aac cca cat				672
Leu Lys Ile Lys Arg Thr Arg Lys Gly Phe Arg Leu Leu Asn Pro His				
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Pro Lys Pro Asn Pro Lys Asn Asn				
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Phe Phe Ala Pro Asp Gly Val Leu Ala Val Pro Gln Lys Pro Lys Val	
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Ser Leu Asn Pro Pro Trp Asn Arg Ile Phe Lys Gly Glu Asn Val Thr	
35 40 45	

ctt aca tgt aat ggg aac aat ttc ttt gaa gtc agt tcc acc aaa tgg	192
Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp	
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Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile	
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Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln	
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caa gtt aat gag agt gaa cct gtg tac ctg gaa gtc ttc agt gac tgg	336
Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp	
100 105 110	

ctg ctc ctt cag gcc tct gct gag gtg gtg atg gag ggc cag ccc ctc	384
Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu	
115 120 125	

ttc ctc agg tgc cat ggt tgg agg aac tgg gat gtg tac aag gtg atc	432
Phe Leu Arg Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile	
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 35 40 45

Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp
 50 55 60

Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile
 65 70 75 80

Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln
 85 90 95

Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp
 100 105 110

Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu
 115 120 125

Phe Leu Arg Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile
 130 135 140

Tyr Tyr Lys Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn

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145                               150                               155                               160

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Phe Lys Gly Glu Asn Val Thr Leu Thr Cys Asn Gly Asn Asn Phe Phe
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Glu Val Ser Ser Thr Lys Trp Phe His Asn Gly Ser Leu Ser Glu Glu
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aca aat tca agt ttg aat att gtg aat gcc aaa ttt gaa gac agt gga      192
Thr Asn Ser Ser Leu Asn Ile Val Asn Ala Lys Phe Glu Asp Ser Gly
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gaa tac aaa tgt cag cac caa caa gtt aat gag agt gaa cct gtg tac      240
Glu Tyr Lys Cys Gln His Gln Gln Val Asn Glu Ser Glu Pro Val Tyr
65                               70                               75                               80

ctg gaa gtc ttc agt gac tgg ctg ctc ctt cag gcc tct gct gag gtg      288
Leu Glu Val Phe Ser Asp Trp Leu Leu Leu Gln Ala Ser Ala Glu Val
                85                               90                               95

gtg atg gag ggc cag ccc ctc ttc ctc agg tgc cat ggt tgg agg aac      336
Val Met Glu Gly Gln Pro Leu Phe Leu Arg Cys His Gly Trp Arg Asn
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tgg gat gtg tac aag gtg atc tat tat aag gat ggt gaa gct ctc aag      384
Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys Asp Gly Glu Ala Leu Lys
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	130					135					140					

gac	agt	gga	acc	tac	tac	tgt	acg	ggc	aaa	gtg	tgg	cag	ctg	gac	tat	480
Asp	Ser	Gly	Thr	Tyr	Tyr	Cys	Thr	Gly	Lys	Val	Trp	Gln	Leu	Asp	Tyr	
145					150				155						160	

gag	tct	gag	ccc	ctc	aac	att	act	gta	ata	aaa	gct					516
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Val	Pro	Gln	Lys	Pro	Lys	Val	Ser	Leu	Asn	Pro	Pro	Trp	Asn	Arg	Ile
1				5					10					15	

Phe	Lys	Gly	Glu	Asn	Val	Thr	Leu	Thr	Cys	Asn	Gly	Asn	Asn	Phe	Phe
			20					25					30		

Glu	Val	Ser	Ser	Thr	Lys	Trp	Phe	His	Asn	Gly	Ser	Leu	Ser	Glu	Glu
		35					40					45			

Thr	Asn	Ser	Ser	Leu	Asn	Ile	Val	Asn	Ala	Lys	Phe	Glu	Asp	Ser	Gly
	50					55					60				

Glu	Tyr	Lys	Cys	Gln	His	Gln	Gln	Val	Asn	Glu	Ser	Glu	Pro	Val	Tyr
65					70					75					80

Leu	Glu	Val	Phe	Ser	Asp	Trp	Leu	Leu	Leu	Gln	Ala	Ser	Ala	Glu	Val
				85					90					95	

Val	Met	Glu	Gly	Gln	Pro	Leu	Phe	Leu	Arg	Cys	His	Gly	Trp	Arg	Asn
			100					105					110		

Trp	Asp	Val	Tyr	Lys	Val	Ile	Tyr	Tyr	Lys	Asp	Gly	Glu	Ala	Leu	Lys
		115					120					125			

Tyr	Trp	Tyr	Glu	Asn	His	Asn	Ile	Ser	Ile	Thr	Asn	Ala	Thr	Val	Glu
	130					135					140				

Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys Val Trp Gln Leu Asp Tyr
145 150 155 160

Glu Ser Glu Pro Leu Asn Ile Thr Val Ile Lys Ala
165 170